Felix G Meinel

List of Publications by Year
in descending order

		76196	106150
117	4,865	40	65
papers	citations	h-index	g-index

119	119	119	5870
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	State of the Art: Iterative CT Reconstruction Techniques. Radiology, 2015, 276, 339-357.	3.6	519
2	Predictive Value of Computed Tomography in Acute Pulmonary Embolism: Systematic Review and Meta-analysis. American Journal of Medicine, 2015, 128, 747-759.e2.	0.6	231
3	Comparison of Diagnostic Value of a Novel Noninvasive Coronary Computed Tomography Angiography Method Versus Standard Coronary Angiography for Assessing Fractional Flow Reserve. American Journal of Cardiology, 2014, 114, 1303-1308.	0.7	171
4	Texture Analysis as Imaging Biomarker of Tumoral Response to Neoadjuvant Chemoradiotherapy in Rectal Cancer Patients Studied with 3-T Magnetic Resonance. Investigative Radiology, 2015, 50, 239-245.	3.5	169
5	Emphysema diagnosis using X-ray dark-field imaging at a laser-driven compact synchrotron light source. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17880-17885.	3.3	167
6	Metal Artifact Reduction by Dual-Energy Computed Tomography Using Energetic Extrapolation. Investigative Radiology, 2012, 47, 406-414.	3.5	158
7	Pulmonary Emphysema Diagnosis with a Preclinical Small-Animal X-ray Dark-Field Scatter-Contrast Scanner. Radiology, 2013, 269, 427-433.	3.6	109
8	Iterative Reconstruction to Preserve Image Quality and Diagnostic Accuracy at Reduced Radiation Dose in Coronary CT Angiography. JACC: Cardiovascular Imaging, 2013, 6, 1239-1249.	2.3	83
9	Firstâ€“Arterial-Pass Dual-Energy CT for Assessment of Myocardial Blood Supply: Do We Need Rest, Stress, and Delayed Acquisition? Comparison with SPECT. Radiology, 2014, 270, 708-716.	3.6	80
10	The novel inhibitor of histone deacetylase resminostat (RAS2410) inhibits proliferation and induces apoptosis in multiple myeloma (MM) cells. British Journal of Haematology, 2010, 149, 518-528.	1.2	78
11	CT Myocardial Perfusion Imaging. American Journal of Roentgenology, 2015, 204, 487-497.	1.0	78
12	In Vivo Dark-Field Radiography for Early Diagnosis and Staging of Pulmonary Emphysema. Investigative Radiology, 2015, 50, 430-435.	3.5	77
13	Accuracy of dual-energy computed tomography for the measurement of iodine concentration using cardiac CT protocols: validation in a phantom model. European Radiology, 2014, 24, 512-518.	2.3	74
14	Image quality and radiation dose of low tube voltage 3rd generation dual-source coronary CT angiography in obese patients: a phantom study. European Radiology, 2014, 24, 1643-1650.	2.3	73
15	Dual-energy CT lung ventilation/perfusion imaging for diagnosing pulmonary embolism. European Radiology, 2013, 23, 2666-2675.	2.3	72
16	Improved In vivo Assessment of Pulmonary Fibrosis in Mice using X-Ray Dark-Field Radiography. Scientific Reports, 2015, 5, 17492.	1.6	72
17	High-pitch computed tomography pulmonary angiography with iterative reconstruction at 80 kVp and 20 mL contrast agent volume. European Radiology, 2014, 24, 3260-3268.	2.3	71
18	Performance of diffusion-weighted imaging, perfusion imaging, and texture analysis in predicting tumoral response to neoadjuvant chemoradiotherapy in rectal cancer patients studied with 3T MR: initial experience. Abdominal Radiology, 2016, 41, 1728-1735.	1.0	67

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19	Whole-brain CT perfusion: reliability and reproducibility of volumetric perfusion deficit assessment in patients with acute ischemic stroke. Neuroradiology, 2013, 55, 827-835.	1.1	65
20	Characteristics of mentoring relationships formed by medical students and faculty. Medical Education Online, 2012, 17, 17242.	1.1	64
21	Cost-Effectiveness of Endovascular Stroke Therapy. Stroke, 2016, 47, 2797-2804.	1.0	64
22	X-ray Dark-field Radiography - In-Vivo Diagnosis of Lung Cancer in Mice. Scientific Reports, 2017, 7, 402.	1.6	63
23	Xenon-Enhanced Dual-Energy CT Lung Ventilation Imaging: Techniques and Clinical Applications. American Journal of Roentgenology, 2014, 202, 309-317.	1.0	62
24	Chest CT using spectral filtration: radiation dose, image quality, and spectrum of clinical utility. European Radiology, 2015, 25, 1598-1606.	2.3	61
25	Prognostic value of epicardial fat volume measurements by computed tomography: a systematic review of the literature. European Radiology, 2015, 25, 3372-3381.	2.3	60
26	Detection and size measurements of pulmonary nodules in ultra-low-dose CT with iterative reconstruction compared to low dose CT. European Journal of Radiology, 2016, 85, 564-570.	1.2	57
27	A noise-optimized virtual monoenergetic reconstruction algorithm improves the diagnostic accuracy of late hepatic arterial phase dual-energy CT for the detection of hypervascular liver lesions. European Radiology, 2018, 28, 3393-3404.	2.3	55
28	More mentoring needed? A cross-sectional study of mentoring programs for medical students in Germany. BMC Medical Education, 2011, 11, 68.	1.0	52
29	Improved Diagnosis of Pulmonary Emphysema Using In Vivo Dark-Field Radiography. Investigative Radiology, 2014, 49, 653-658.	3.5	52
30	Mammographic detection of breast arterial calcification as an independent predictor of coronary atherosclerotic disease in a single ethnic cohort of African American women. Atherosclerosis, 2015, 242, 218-221.	0.4	50
31	CT angiography to evaluate coronary artery disease and revascularization requirement before trans-catheter aortic valve replacement. Journal of Cardiovascular Computed Tomography, 2017, 11, 338-346.	0.7	50
32	Image quality, radiation dose, and diagnostic accuracy of prospectively ECG-triggered high-pitch coronary CT angiography at 70ÂkVp in a clinical setting: comparison with invasive coronary angiography. European Radiology, 2016, 26, 797-806.	2.3	49
33	Diagnostic accuracy of CT angiography in infants with tetralogy of Fallot with pulmonary atresia and major aortopulmonary collateral arteries. Journal of Cardiovascular Computed Tomography, 2013, 7, 367-375.	0.7	46
34	Radiation Risks From Cardiovascular Imaging Tests. Circulation, 2014, 130, 442-445.	1.6	46
35	Contrast-Induced Acute Kidney Injury: Definition, Epidemiology, and Outcome. BioMed Research International, 2014, 2014, 1-6.	0.9	46
36	Computed tomography of acute pulmonary embolism: state-of-the-art. European Radiology, 2015, 25, 2547-2557.	2.3	46

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37	Effectiveness of Automated Quantification of Pulmonary Perfused Blood Volume Using Dual-Energy CTPA for the Severity Assessment of Acute Pulmonary Embolism. Investigative Radiology, 2013, 48, 563-569.	3.5	45
38	Diagnosing and Mapping Pulmonary Emphysema on X-Ray Projection Images: Incremental Value of Grating-Based X-Ray Dark-Field Imaging. PLoS ONE, 2013, 8, e59526.	1.1	44
39	Effect of reduced x-ray tube voltage, low iodine concentration contrast medium, and sinogram-affirmed iterative reconstruction on image quality and radiation dose at coronary CT angiography: Results of the prospective multicenter REALISE trial. Journal of Cardiovascular Computed Tomography, 2015, 9, 215-224.	0.7	43
40	Coronary Artery Computed Tomography Scanning. Circulation, 2014, 129, 1341-1345.	1.6	41
41	Cost-effectiveness of Endovascular Therapy for Acute Ischemic Stroke: A Systematic Review of the Impact of Patient Age. Radiology, 2018, 288, 518-526.	3.6	41
42	Facilitated Diagnosis of Pneumothoraces in Newborn Mice Using X-ray Dark-Field Radiography. Investigative Radiology, 2016, 51, 597-601.	3.5	40
43	ECG-Synchronized CT Angiography in 324 Consecutive Pediatric Patients: Spectrum of Indications and Trends in Radiation Dose. Pediatric Cardiology, 2015, 36, 569-578.	0.6	37
44	Effect of Automated Attenuation-based Tube Voltage Selection on Radiation Dose at CT: An Observational Study on a Global Scale. Radiology, 2016, 279, 167-174.	3.6	37
45	A Novel Large-scale Mentoring Program for Medical Students based on a Quantitative and Qualitative Needs Analysis. GMS Zeitschrift FÃ¼r Medizinische Ausbildung, 2011, 28, Doc26.	1.2	37
46	Absolute Versus Relative Myocardial Blood Flow by Dynamic CT Myocardial Perfusion Imaging in Patients With Anatomic Coronary Artery Disease. American Journal of Roentgenology, 2015, 205, W67-W72.	1.0	36
47	Global Quantification of Left Ventricular Myocardial Perfusion at Dynamic CT: Feasibility in a Multicenter Patient Population. American Journal of Roentgenology, 2014, 203, W174-W180.	1.0	34
48	Reproducibility of Noncalcified Coronary Artery Plaque Burden Quantification From Coronary CT Angiography Across Different Image Analysis Platforms. American Journal of Roentgenology, 2014, 202, W43-W49.	1.0	34
49	Coronary Computed Tomographic Angiography in Clinical Practice. Radiologic Clinics of North America, 2015, 53, 287-296.	0.9	32
50	Computed Tomographic Assessment of Coronary Artery Disease. Radiologic Clinics of North America, 2015, 53, 271-285.	0.9	32
51	High-Pitch CT Pulmonary Angiography in Third Generation Dual-Source CT: Image Quality in an Unselected Patient Population. PLoS ONE, 2016, 11, e0146949.	1.1	32
52	Crossed cerebellar diaschisis in acute ischemic stroke: Impact on morphologic and functional outcome. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3615-3624.	2.4	32
53	Prognostic Value of Stress Dynamic Myocardial Perfusion CT in a Multicenter Population With Known or Suspected Coronary Artery Disease. American Journal of Roentgenology, 2017, 208, 761-769.	1.0	32
54	Is Contrast Medium Osmolality a Causal Factor for Contrast-Induced Nephropathy?. BioMed Research International, 2014, 2014, 1-8.	0.9	31

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55	Parallel-transmit-accelerated spatially-selective excitation mri for reduced-fov diffusion-weighted-imaging of the pancreas. European Journal of Radiology, 2014, 83, 1709-1714.	1.2	31
56	Image Quality and Radiation Dose of Lower Extremity CT Angiography Using 70 kVp, High Pitch Acquisition and Sinogram-Affirmed Iterative Reconstruction. PLoS ONE, 2014, 9, e99112.	1.1	30
57	Dynamic CT myocardial perfusion imaging identifies early perfusion abnormalities in diabetes and hypertension: Insights from a multicenter registry. Journal of Cardiovascular Computed Tomography, 2016, 10, 301-308.	0.7	29
58	Approaches to ultra-low radiation dose coronary artery calcium scoring based on 3rd generation dual-source CT: A phantom study. European Journal of Radiology, 2016, 85, 39-47.	1.2	29
59	Influence of vascular enhancement, age and gender on pulmonary perfused blood volume quantified by dual-energy-CTPA. European Journal of Radiology, 2013, 82, 1565-1570.	1.2	26
60	Grating-based X-ray dark-field imaging: a new paradigm in radiography. Current Radiology Reports, 2014, 2, 1.	0.4	26
61	X-ray dark-field radiography facilitates the diagnosis of pulmonary fibrosis in a mouse model. Scientific Reports, 2017, 7, 340.	1.6	25
62	Early Imaging Prediction of Malignant Cerebellar Edema Development in Acute Ischemic Stroke. Stroke, 2017, 48, 2597-2600.	1.0	25
63	X-Ray Dark-field Imaging to Depict Acute Lung Inflammation in Mice. Scientific Reports, 2018, 8, 2096.	1.6	25
64	Comparison of Contrast-to-Noise Ratios of Transmission and Dark-Field Signal in Grating-Based X-ray Imaging for Healthy Murine Lung Tissue. Zeitschrift Fur Medizinische Physik, 2013, 23, 236-242.	0.6	24
65	Predictive value of coronary computed tomography angiography in asymptomatic individuals with diabetes mellitus: Systematic review and meta-analysis. Journal of Cardiovascular Computed Tomography, 2018, 12, 320-328.	0.7	24
66	Structured reports of videofluoroscopic swallowing studies have the potential to improve overall report quality compared to free text reports. European Radiology, 2018, 28, 308-315.	2.3	24
67	Lung tumors on multimodal radiographs derived from grating-based X-ray imaging â€“ A feasibility study. Physica Medica, 2014, 30, 352-357.	0.4	23
68	Global quantification of left ventricular myocardial perfusion at dynamic CT imaging: Prognostic value. Journal of Cardiovascular Computed Tomography, 2017, 11, 16-24.	0.7	23
69	Cardiac MRIâ€”Update 2020. Der Radiologe, 2020, 60, 33-40.	1.7	22
70	Time-resolved CT angiography in aortic dissection. European Journal of Radiology, 2012, 81, 3254-3261.	1.2	21
71	Thalamic Diaschisis in Acute Ischemic Stroke. Stroke, 2018, 49, 931-937.	1.0	21
72	Beyond Stenosis Detection. Radiologic Clinics of North America, 2015, 53, 317-334.	0.9	20

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73	Cardiovascular manifestations of Williams syndrome: Imaging findings. Journal of Cardiovascular Computed Tomography, 2013, 7, 400-407.	0.7	19
74	Assessing Pulmonary Perfusion in Emphysema. Investigative Radiology, 2013, 48, 79-85.	3.5	19
75	Detection of single-phase CTA occult vessel occlusions in acute ischemic stroke using CT perfusion-based wavelet-transformed angiography. European Radiology, 2017, 27, 2657-2664.	2.3	19
76	Influence of technical parameters on epicardial fat volume quantification at cardiac CT. European Journal of Radiology, 2015, 84, 1062-1067.	1.2	18
77	Comparison of quantitative stenosis characteristics at routine coronary computed tomography angiography with invasive fractional flow reserve for assessing lesion-specific ischemia. Journal of Cardiovascular Computed Tomography, 2015, 9, 546-552.	0.7	18
78	Computed Tomography Imaging of Coronary Artery Plaque. Radiologic Clinics of North America, 2015, 53, 307-315.	0.9	17
79	The Novel, Proteasome-Independent NF-Î²B Inhibitor V1810 Induces Apoptosis and Cell Cycle Arrest in Multiple Myeloma and Overcomes NF-Î²Bâ€“Mediated Drug Resistance. Molecular Cancer Therapeutics, 2010, 9, 300-310.	1.9	16
80	Worsening respiratory function in mechanically ventilated intensive care patients: Feasibility and value of xenon-enhanced dual energy CT. European Journal of Radiology, 2013, 82, 557-562.	1.2	16
81	High-pitch coronary CT angiography in dual-source CT during free breathing vs. breath holding in patients with low heart rates. European Journal of Radiology, 2013, 82, 2217-2221.	1.2	15
82	Semiautomated Global Quantification of Left Ventricular Myocardial Perfusion at Stress Dynamic CT:. Academic Radiology, 2016, 23, 429-437.	1.3	15
83	Quantitative evaluation of beam-hardening artefact correction in dual-energy CT myocardial perfusion imaging. European Radiology, 2016, 26, 3215-3222.	2.3	15
84	Structured Reporting of CT Angiography Runoff Examinations of the Lower Extremities. European Journal of Vascular and Endovascular Surgery, 2018, 55, 679-687.	0.8	15
85	Cardiac CT: why, when, and how. Der Radiologe, 2019, 59, 1-9.	1.7	14
86	Fully automated quantification of left ventricular volumes and function in cardiac MRI: clinical evaluation of a deep learning-based algorithm. International Journal of Cardiovascular Imaging, 2020, 36, 2239-2247.	0.7	14
87	Healthy Lung Vessel Morphology Derived From Thoracic Computed Tomography. Frontiers in Physiology, 2018, 9, 346.	1.3	13
88	Novel single-source high-pitch protocol for CT angiography of the aorta: comparison to high-pitch dual-source protocol in the context of TAVI planning. International Journal of Cardiovascular Imaging, 2013, 29, 1159-1165.	0.7	12
89	Penumbra Pattern Assessment in Acute Stroke Patients: Comparison of Quantitative and Non-Quantitative Methods in Whole Brain CT Perfusion. PLoS ONE, 2014, 9, e105413.	1.1	12
90	Diagnostic yield and accuracy of coronary CT angiography after abnormal nuclear myocardial perfusion imaging. Scientific Reports, 2018, 8, 9228.	1.6	12

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91	Detection of pulmonary embolism with free-breathing dynamic contrast-enhanced MRI. Journal of Magnetic Resonance Imaging, 2016, 43, 887-893.	1.9	11
92	Suspected pulmonary embolism in patients with pulmonary fibrosis: Discordance between ventilation/perfusion SPECT and CT pulmonary angiography. Respirology, 2016, 21, 1081-1087.	1.3	11
93	Enhanced reconstruction algorithm for moirÃ© artifact suppression in Talbotâ€“Lau x-ray imaging. Physics in Medicine and Biology, 2018, 63, 135018.	1.6	11
94	MRI evidence for preserved regulation of intracranial pressure in patients with cerebral arteriovenous malformations. European Journal of Radiology, 2014, 83, 1442-1447.	1.2	10
95	Color-Coded Cerebral Computed Tomographic Angiography. Investigative Radiology, 2015, 50, 361-365.	3.5	10
96	Improved Detection of Foreign Bodies on Radiographs Using X-ray Dark-Field and Phase-Contrast Imaging. Investigative Radiology, 2018, 53, 352-356.	3.5	10
97	Residents' Performance in the Interpretation of On-Call â€œTriple-Rule-Outâ€•CT Studies in Patients with Acute Chest Pain. Academic Radiology, 2014, 21, 938-944.	1.3	8
98	Computer-aided diagnosis of pulmonary diseases using x-ray darkfield radiography. Physics in Medicine and Biology, 2015, 60, 9253-9268.	1.6	8
99	Performance of Automated Software in the Assessment of Segmental Left Ventricular Function in Cardiac CT: Comparison with Cardiac Magnetic Resonance. European Radiology, 2015, 25, 3560-3566.	2.3	8
100	Diagnostic Accuracy of Whole-Brain Computed Tomographic Perfusion Imaging in Small-Volume Infarctions. Investigative Radiology, 2014, 49, 236-242.	3.5	7
101	Effect of stroke thrombolysis predicted by distal vessel occlusion detection. Neurology, 2018, 90, e1742-e1750.	1.5	7
102	Isolated calf deep venous thrombosis: frequency on venous ultrasound and clinical characteristics. BMC Emergency Medicine, 2021, 21, 126.	0.7	7
103	Prospectively ECG-triggered high-pitch 80â€‰kVp coronary computed tomography angiography with 30â€‰mL of 270â€‰mg I/mL contrast material and iterative reconstruction. Acta Radiologica, 2016, 57, 287-294.	0.5	6
104	Prevalence and predictors of alternative diagnoses on whole-leg ultrasound negative for acute deep venous thrombosis. BMC Medical Imaging, 2020, 20, 127.	1.4	5
105	Concomitant chronic venous insufficiency in patients with peripheral artery disease: insights from MR angiography. European Radiology, 2020, 30, 3908-3914.	2.3	5
106	First experiences with in-vivo x-ray dark-field imaging of lung cancer in mice. Proceedings of SPIE, 2017, , .	0.8	4
107	Deep Learning-Based Image Reconstruction for CT Angiography of the Aorta. Diagnostics, 2021, 11, 2037.	1.3	4
108	Small-animal dark-field radiography for pulmonary emphysema evaluation. , 2014, , .		3

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109	Imaging and Clinical Parameters for Distinction between Infected and Non-Infected Fluid Collections in CT: Prospective Study Using Extended Microbiological Approach. Diagnostics, 2022, 12, 493.	1.3	3
110	Coronary Artery Plaque Burden in Smokers and Never-Smokers: Quantification With Cardiac CT. Academic Radiology, 2019, 26, 1589-1590.	1.3	1
111	Global and Regional Testâ€“Retest Reproducibility of Native T1 and T2 Mapping in Cardiac Magnetic Resonance Imaging. Journal of Magnetic Resonance Imaging, 2021, 54, 1763-1772.	1.9	1
112	Improved assessment of mediastinal and pulmonary pathologies in combined staging CT examinations using a fast-speed acquisition dual-source CT protocol. European Radiology, 2017, 27, 4931-4940.	2.3	0
113	Dual Energy CT in Chest Tumors. , 2015, , 41-58.		0
114	Dual-Energy CT in Thoracic Imaging. , 2015, , 95-112.		0
115	CT Imaging of Ischemic Heart Disease. Medical Radiology, 2016, , 341-359.	0.0	0
116	Dual-Energy CT of the Thorax. Medical Radiology, 2016, , 283-310.	0.0	0
117	Negative Venous Leg Ultrasound in Acute Pulmonary Embolism: Prevalence, Clinical Characteristics and Predictors. Diagnostics, 2022, 12, 520.	1.3	0